

APR U 3 2002

TECH CENTER 1600/2900



1600

Page 1 of 7

1 10

DATE: 02/28/2002 TIME: 13:31:48

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TECH CENTER 1600/2900

PATENT APPLICATION: US/09/893,666A Input Set : A:\210217US0.ST25.txt

Output Set: N:\CRF3\02282002\I893666A.raw

3 -: 110> APPLICANT: YAMASHITA, ICHIRO

5 :120: TITLE OF INVENTION: High estrogen-sensitive medaka fish

7 <130> FILE REFERENCE: 210217US-620-7249-0

9 <140> CURRENT APPLICATION NUMBER: US 09/893,666A

RAW SEQUENCE LISTING

C--> 10 <141> CURRENT FILING DATE: 2002-02-12

12 <150> PRIOR APPLICATION NUMBER: JP 2000-247729

13 -: 151> PRIOR FILING DATE: 2000-08-17

15 <160> NUMBER OF SEQ ID NOS: 7

17 <170> SOFTWARE: PatentIn version 3.1

19 -: 210: SEQ ID NO: 1

20 (211) LENGTH: 2764

21 -: 212> TYPE: DNA

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22 <213> ORGANISM: Oryzias latipes

24 - (220) FEATURE:

25 -: 221> NAME/KEY: CDS

26 -: 222> LOCATION: (211)..(1935)

27 <223> OTHER INFORMATION:

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37	ogeo	ctctc	ege d	cccgt	gaco	cc cc	ctcgg	gtgad	ato	g tad	c cct	gaa	gag	g ago	cgg	ggt	234
38									Met	Туз	r Pro	o Glu	ı Glu	ı Sei	Arg	, Gly	
39									1				5				
				gtg													282
4.2	Ser	Gly	Gly	Val	Ala	Ala	Val	Asp	Phe	Leu	Glu	Gly	Thr	Tyr	Asp	Tyr	
43		10					15					20					
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46	Ala	Ala	Pro	Asn	Pro	Ala	Thr	Thr	Pro	Leu	Tyr	Ser	Gln	Ser	Ser	Thr	
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50	Gly	Tyr	Tyr	Ser	Ala	Pro	Leu	Glu	Thr	Asn	Gly	Pro	Pro	Ser		Gly	
51					45					50					55		
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54	Ser	Leu	Gln	Ser	Leu	Gly	Ser	Gly	Pro	Thr	Ser	Pro	Leu	Val	Phe	Val	
55				60					65					70			
57				CCC													474
58	Pro	Ser	Ser	Pro	Arg	Leu	Ser	Pro	Phe	Met	His	Pro	Pro	Ser	His	His	
59			75					80					85				
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RAW SEQUENCE LISTING DATE: 02/28/2002 PATENT APPLICATION: US/09/893,666A TIME: 13:31:48

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75				140					145					150			
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79			155					160					165				
81	atc	cag	ggt	cac	aat	gac	tat	atg	tgc	cca	gcg	acc	aat	cag	tgc	act	762
82	Ile	Gln	Gly	His	Asn	Asp	Tyr	Met	Cys	Pro	Ala	Thr	Asn	Gln	Cys	Thr	
83		170					175					180					
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86	Ile	Asp	Arg	Asn	Arg	Arg	Lys	Ser	Cys	Gln	Ala	Cys	Arg	Leu	Arg	Lys	
	185	_				190					195					200	
89	tgt	tac	gaa	gtg	gga	atg	atg	aaa	ggc	ggt	gtg	cgc	aag	gac	cgc	att	858
	Cys																
91	-	-			205					210					215		
93	cgc	att	tta	cqq	cgt	gac	aaa	cgg	cgg	aca	ggc	gtt	ggt	gat	gga	gac	906
	Arg																
95	_			220		-	-	_	225		_		_	230			
	aag	att	gta	aaq	aat	caq	aaa	cat	aaa	acq	ata	cat	tat	gat	qqa	agg	954
	Lys																
99			235	-1-	1			240	- 1				245	•	_		
	l aaa	cac		age	aca	ασa	qqа	qqa	qqa	qqa	ı qqa	qqa	। वव	ı qqa	ı aga	ctg	1002
	2 Lys																
10		250				1	255		-	_	1	260		_	,		
	- 5 tct			: ago	ata	cct			cag	ato	r cta	rcto	cto	ctt	. caq	aac	1050
	6 Ser																
	7 265					270					275					280	
	9 gcc		r ddd	a dda	ata			t.ca	cat	cao			ago	с с с а	ı cca		1098
	O Ala																
11		. 010		, , ,	285		010	201	9	290				5	295		
	aco	dac	rato	r acc			acc	cta	ctc			: ato	r aca	gac			1146
	4 Thr																
11		. 010	. •u1	300		1100	1111	шеч	305			. 1101		310		014	
	o 7 etg	r ata				acc	taa	σοσ			r ctc		aat			cad	1194
	8 Leu																4401
11		ı val	315		. 110	Ala	ттр	320		пуз	, псс	1 110	325		. пс	. 0111	
J 1	9				· «»+	asa	ata			ata	, a.ə.c	1 2010			cto	. aaa	1242
	1 7+0					Cay	9 69										1242
12	1 ctg						17 - 1	T 011	TOU	TOI	, (1)	1 601		- 1 17-7-	Tai	C	
12 12	2 Lei	ı Sei	: Lei						Leu	Leu	ı Glu			'l'rp) Leu	Glu	
12 12 12	2 Leu 3	330	Lei	ı His	Asp	Gln	335					340)				1200
12 12 12 12	2 Lei 3 5 gtg	330 330 g ct	Lei) c atg	His gate	Asp	Gln	335 att	tgg	agg	tec	c ato	340 c cad) : tgt		ggg	aag	1290
12 12 12 12 12	2 Lei 3 5 gtg 6 Val	330 330 g cta	Lei) c atg	His gate	Asp	Gln ctc Leu	335 att Ile	tgg	agg	tec	ato	340 c cad His) : tgt		ggg	aag Lys	1290
12 12 12 12 12 12	2 Leu 3 5 gtg 6 Val 7 345	330 330 g cto Lev	Lei) c atg	His g atc	Asp ggc Gly	Gln ctc Leu 350	335 att	tgg Trp	agg Arg	tco Ser	ato Ile 355	340 c cad e His) c tgt s Cys	ccc Pro	ggg Gly	aag Lys 360	
12 12 12 12 12 12 12	2 Lei 3 5 gtg 6 Val	330 330 g cto L Lev	Lei) c atg u Met	His atc	Asp ggc Gly	Gln ctc Leu 350 gac	335 att Ile	tgg Trp	agg Arg	tcc Ser	ato Ile 355 agg	340 c cac His 5 g aat) c tgt s Cys	ccc Pro	ggg Gly a gad	aag Lys 360	1290 1338

RAW SEQUENCE LISTING

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135	000	++0	cat	gtg	ata	222	ctc	222		a a a	maa	ttc	atc		ctc	222	1434
				Val													1131
139	Alg	FILE	395	vaı	цец	цуз	Tiera	400	FIO	GIU	Giu	1 110	405	Cys	пси	цуз	
	aat	a + +		tta	ata	220	taa		act	+++	tat	tta		3.00	aac	acc	1482
				Leu													1402
143	Ата	410	116	цец	ьеu	ASII	415	GIY	нта	FILE	261	420	СуБ	1111	Gry	1111	
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				Leu													1000
	425	GIU	FIO	шец	пта	430	501	пта	nia	Val	435	DCI	TICC	пси	пор	440	
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				Ala													13,0
151	116	TIII	АЗР	AIG	445	110	1113	111	110	450	OIII	DCI	0 ± 1	- 1 -	455	7114	
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155	GIII	Giu	GIII	460	Arg	nrg	0111	, i i u	465	пси	шеч	шеч	пси	470	501	1110	
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				Lys													1,22
163	- Y B	490	ווכח	шуз	• 441	110	495	+ <u>y</u> -	пор	шеч		500	014		DC u	110 F	
	acc		cac	ctg	cac	cac		atc	aαa	gca	acc		taa	t.t.a	tida	caa	1770
	-		_	Leu				-									
	505		*** 9	ДСС	1110	510	110	, 41	9		515	01				520	
		gac	aga	gac	aat		taa	acc	agc	agc		aaa	aat.	σσα	atc		1818
				Asp													
171	, 44	p			525					530	1	1	1	1	535		
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				Āla													
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				Āla													
183	_	570					575										
185	ggc.	tcaaq	ggg .	ttcag	ggtt	gg ga	acaa	ggtga	a tg	cttga	attt	aat	ttta	aga a	attai	ttata	2025
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195	cac	ttaai	tct ·	tggat	ttaaa	ag gg	ggcta	aatg	g gca	attai	tttt	gtc	tatt	gta d	cata	tgggat	2325
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225 226	Phe	Leu	Glu	Gly 20	Thr	Tyr	Asp	Tyr	Ala 25	Ala	Pro	Asn	Pro	Ala 30	Thr	Thr	
	Pro	Len	πуг		Gln	Ser	Ser	Thr		Ψvr	Tvr	Ser	Ala		Leu	Glu	
230	110	шеш	35	001	0111	DCI	001	40	O ₁	-1-	-1-	001	45				
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254		130					135					140	_	_			
		Asp	Tyr	Ala	Ser		Tyr	His	Tyr	GLY		Trp	Ser	Cys	Glu		
	145	_		5 1	D1	150	3	a	71 -	a1	155	TT = _	3	3	m	160 Mat	
	Cys	ьуs	Ala	Pne	165	гаг	Arg	ser	ше	170	СТУ	HIS	ASII	ASP	Tyr 175	мес	
262	Cvc	Dro	λla	Thr		Gln	Cvc	Thr	Tle		Δra	Δen	Δrσ	Δra	Lys	Ser	
266	Cys	PIO	Ala	180	ASII	GIII	Cys	T111	185	нър	AIG	ASII	лгу	190	шуз	501	
	CVS	Gln	Δla		Δrσ	Leu	Δra	Tays		Tvr	Glu	Val	Glv		Met	Lvs	
270	CID	0111	195	O _I D		Lou	*** 9	200	010	-1-	0		205			-1-	
	Glv	Glv		Arq	Lvs	Asp	Arq		Arq	Ile	Leu	Arq		Asp	Lys	Arg	
274	_	210			4	-	215		,			220	_	-	-	_	
277	Arg	Thr	Gly	Val	Gly	Asp	Gly	Asp	Lys	Val	Val	Lys	Gly	Gln	Glu	His	
278	225		_		_	230	_	_			235					240	
281	Lys	Thr	Val	His	Tyr	Asp	Gly	Arg	Lys	Arg	Ser	Ser	Thr	Gly	Gly	Gly	
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286				260					265					270			
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290	_		275	_	_	_	_	280					285			_	
	Arg		Lys	Leu	Ser	Arg		Tyr	Thr	Glu	Val		Met	Met	Thr	Leu	
294	т.	290	-	36.	3.7	3 .	295	<i>a</i> :	.	37. 3	TT	300	T1.	ъл.	m	7.1 a	
<i>1</i> 9/	ьeu	Thr	ser	мet	A⊥a	Asp	ьys	GLU	Leu	val	Hls	мет	тте	Ala	Trp	Ala	

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/893,666A

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326				420					425					430			
329	Ala	Val		Ser	Met	Leu	Asp	Thr	Ile	Thr	Asp	Ala		Ile	His	Tyr	
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	Ile		Gln	Ser	Gly	Tyr		Ala	Gln	Glu	Gln		Arg	Arg	Gln	Ala	
334		450					455			_	1	460	_	_	_	a 3	
		Leu	Leu	Leu	Leu		Ser	His	He	Arg		Met	Ser	Asn	Lys		
	465			_	_	470		-	_	-	475	-	77. 7	D	T	480	
	Met	Glu	Hıs	Leu		Ser	Met	Lys	Cys		Asn	ьуs	vaı	Pro		Tyr	
342	•	T	T	T	485	34 - L	т	7	3 l a	490	7 ~	т ол	111.0	II i o	495	17 n]	
	Asp	ьеu	Leu		GIU	мет	ьeu	Asp		HIS	Arg	ьeu	HIS		PIO	vai	
346	7 20 00	7 1 -	Dwo	500	Cor	Tou	Cor	Cln	505	7 an	λκα	Nan	Dro	510 Bro	Cor	Thr	
350	_	Ald	515	GIII	ser	ьeu	ser	Gln 520	Val	АБР	Alg	АБР	525	FIO	361	1111	
		Cor		C1 11	C1 17	Gl v	Tlo	Ala	Dro	Clu	Ser	Tle		Δla	Ser	Δra	
354	261	530	Gry	Gry	GIY	GIY	535	HIG	110	Ory	DCI	540	501	1114	DCI	**** 9	
	Glv		Tle	Glu	Ser	Pro		Arg	Glv	Pro	Phe		Pro	Ser	Val	Leu	
	545	111 9	110	014	001	550	501	*** 9	011	•	555					560	
		Tvr	Glv	Glv	Ser		Pro	Asp	Cvs	Thr		Ala	Leu	Gln	Asp		
362		- 1 -	1	4	565			•	1	570					575		
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				H: 20													
367	<:212	2:- TY	YPE:	DNA													
36₿	·:213	3:→ OI	RGAN	ISM:	ART	IFIC:	IAL S	SEQU!	ENCE								
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VERIFICATION SUMMARYDATE: 02/28/2002PATENT APPLICATION: US/09/893,666ATIME: 13:31:49

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L:10 M:271 C: Current Filing Date differs, Replaced Current Filing Date